Appendix C

DESIGNING FOR SENIORS

Combining a functional and an aesthetically pleasing design is the basis for Seniors Design at our firm. Some examples of the operational and space-planning design issues which we continually address are discussed in the next few pages.

Sense of Community

Designing community centers, independent living and assisted living communities which encourage social interaction between residents has always been a part of our design philosophy. The goal to create a design which encourages social interaction, without forcing it upon anyone, is a priority for many of our clients.

The common areas themselves can be configured to provide opportunities and spaces for residents to socialize in large and small groups or offer the chance to spend some quiet time alone outside of their apartment. Small lounges located along hallways and internal or external porches give residents the chance to meet in smaller groups or spend some private time.

The common areas are where a great deal of interaction most often occurs. Dining and posting of mail are activities that bring people together, and the way these functions are organized, arranged and presented can make a vast difference in the interaction potential realized.

Placing mail boxes in a high visibility area - an area that people pass through during their daily routine - will promote socialization. Those not receiving mail can also enjoy the incoming mail by having friends share their news. The path that people travel creates the potential for a "Main Street" where secondary activities can occur. Because these activities are located on the normal traffic route, people are encouraged to stop and observe. We have found that many of the observers are drawn to the activity and interaction because what they see is of interest, or they see someone with whom they wish to visit.

The built environment can help facilitate and foster socialization and involvement in community activities, such as dining, enjoyment of the outdoors and even reading in the library.

DESIGNING FOR SENIORS

Windows and glass doors prompt the casual passersby to visually enjoy the activities occurring inside. Many older people are avid spectators. Placing highly visible activity rooms along the normal travel path creates interest and encourages active or passive participation. The arts and crafts room and similar activity space should not be placed behind closed or solid doors. By isolating the activity, it is difficult for an introverted resident to feel comfortable entering the area. Making a resident feel at ease will encourage social interaction.

An arts and crafts room allows residents to participate in activities they enjoy. Windows connect residents to the outdoors and bring in natural light.

Providing bathrooms close to activity areas will give more freedom to residents who have a problem with incontinence and allow them to remain socially active without fear of embarrassment.

Rest stops or small lobbies can be used to break a journey into a series of short trips. These rest areas, placed along travel routes, also create spaces where people can gather in small groups. Using residential lean rails or hand railings along travel routes provides support along the way.

Operational Design

A design that maximizes the operational efficiency of a community is important to the success of that facility. There are several ways to approach design for operational efficiency in a CCRC. The first approach is through a thorough analysis of building systems with regard to installed cost, operating cost, and life cycle costs. Our architects and engineers are experienced in all types of systems and the impact they have on your bottom line--both first-cost and long-term. This process is used at our firm, not only on mechanical systems but many building components including roof systems, carpet, finishes, exterior materials and many others.

Another way to approach operationally efficient design is in the planning of the project. The circulation, the room design, the way staff and goods move through the facility all have a tremendous impact on the long-term operating costs of your building.

DESIGNING FOR SENIORS

Studies have identified specific ways in which carefully planned capital expenditures can offer considerable cost savings over the long-term operation of a project, particularly in the delivery of services to the residents of the retirement community. The higher the level of care, the greater the opportunity for achieving substantial cost savings in program offerings through the responsive architectural design, engineering, and interior design of the building.

The appropriate design of individual nursing and assisted living homes can benefit both residents and long-term operational costs of a community. This may be done by locating smaller dining and resident activity areas within several clusters of resident living accommodations, rather than having one large central dining/activity area. This concept places important services within closer proximity to the residents. It can help facilitate and encourage social interaction, minimize walking/wheeling distances, afford greater flexibility in the use of these spaces, reduce resident disorientation, and decrease staff time needed for transporting residents to distant dining and activity areas.

Providing residents with dining options increases autonomy and choice.

Resident care and increased staff efficiency are improved through the decentralizing of service related spaces for nursing care and assisted living. Rather than centralizing the clean and soiled utility spaces, support storage, and bathing rooms in a core area adjacent to the nursing service area, such individual spaces should be located within clusters of rooms which are served by such spaces. By reducing staff time spent between storage areas and where care is given, staff focus more closely on efficient and effective service delivery and addressing the personal needs of the residents.

Housekeeping and laundry staff time is heavily expended in the linen supply system that has traditionally been employed in retirement facilities. However, we have found that through more innovative design, staff time can be reduced. We specially designed a linen cabinet located off of the corridor to allow for greater efficiency and better storage.

DESIGNING FOR SENIORS

The linen cabinet houses an entire cart of clean linens. Shelves provide an area where staff can store the clean linens, making them easily accessible. Once the cart is empty or nearly empty, it can be rolled out and taken back to the laundry room to be refilled with clean linens once again.

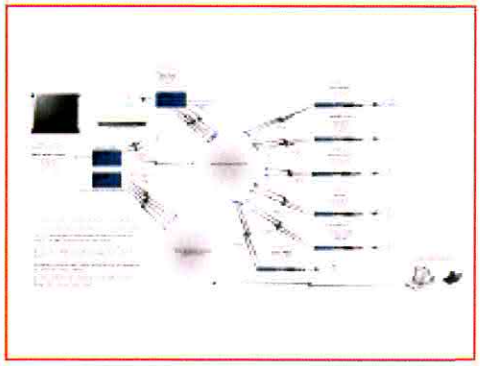
Specially designed cabinets hold clean linens, which helps with staff efficiency and removes clutter from the hallway.

The appropriate selection of furnishings and interior finishes also plays a major role in reducing long-term operational costs. Appropriately designed seating takes into consideration seat height, good arm and back support, a comfortable but firm seat, and contributes to increased comfort. Other benefits of careful furniture selection include better posture, reduced incidence of pressure sores, increased circulation, and the enhanced safety and ability of the resident to get into/out of the chair without assistance. Topical fabric treatments are recommended for ease of maintenance, addressing incontinence, meeting or exceeding fire and life safety codes, and prolonging the life of upholstery, all within the goal of providing attractive and residentially styled living environments.

Technology

Technology is an important consideration that can have a huge impact on the care provided to your residents and your staff's operational efficiency. The implementation of technology in seniors design– such as wireless communication, advanced security systems, in-house TV, wandering protection, smart house, and audiovisual systems – enhances autonomy and relationships, while improving operations.

Being proactive in embracing new technology and incoporating state-of-the-art systems into your project can impact your culture of care. At our Whitney Center project in Connecticut, we are working with the client to provide a fiber-optic backbone to support future internet based TV, telephone, and other technologies. This new system will provide greater flexibility and personalization in resident rooms and adds increased security for residents.



CREATIVE AND UNIQUE DESIGN

When you hire SFCS, you are hiring a business partner, not just a strong architectural and engineering firm. We understand that even not-for-profit sponsored CCRC's are a business that must meet key financial ratios and performance measures. SFCS is skilled and experienced in creating a balance between finances, aesthetics, and operational efficiency that leads to a successful market-driven residential environment. Some examples of these endeavors are demonstrated below.

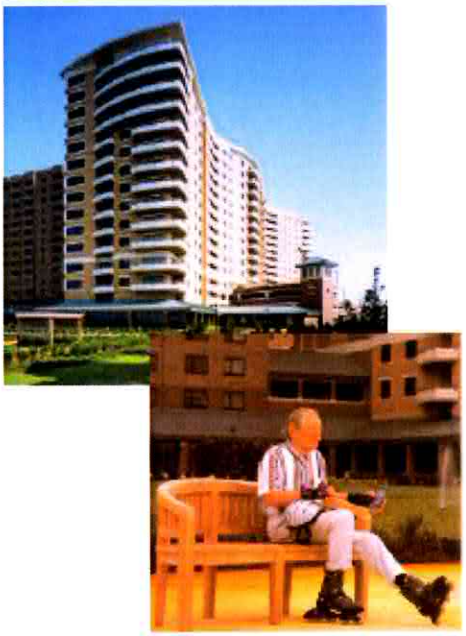
Westminster-Canterbury on Chesapeake Bay in Virginia Beach, Virginia, located on a very constricted urban site, the client commissioned SFCS for architectural and engineering services. To meet the demand for larger upscale apartments, SFCS designed and skillfully-sited a new residential tower ("West"). Its appealing – and unusual – serpentine shape enables residents in each of its spacious apartments to enjoy a spectacular water view.

Because the West Tower includes a parking garage, the community now boasts even more green space than before the new tower was built. Garden areas include a new meditation garden outside the chapel, a wellness garden, walking paths, and garden plots for the residents.

Technology was implemented throughout the community to improve operations, resident security, and staff efficiency. Wireless communication is used for emergency call, and other technology – advanced security systems, in-house TV, wandering protection, and audio-visual systems – enhances services and assists staff in meeting residents' needs.

Currently SFCS is working with WCCB to explore the feasibility for new construction for Independent Living apartments and villas on an adjacent site.

Westminster Canterbury on Chesapeake Bay, Virginia Beach, VA



St. Joseph of the Pines (SJP) operates two CCRC campuses in Southern Pines. SJP recognized the need to begin the repositioning of one of these retirement communities, and envisioned using this historical building as their center piece. Through strategic planning, SJP identified that the best and highest use of the building was senior housing with new common amenities that were previously unavailable to the community.

Overlook at Pine Knoll represents the adaptive re-use of the historic Knollwood building into 20 luxury retirement living apartments and resident amenity spaces.

The Overlook at Pine Knoll, Southern Pines, NC

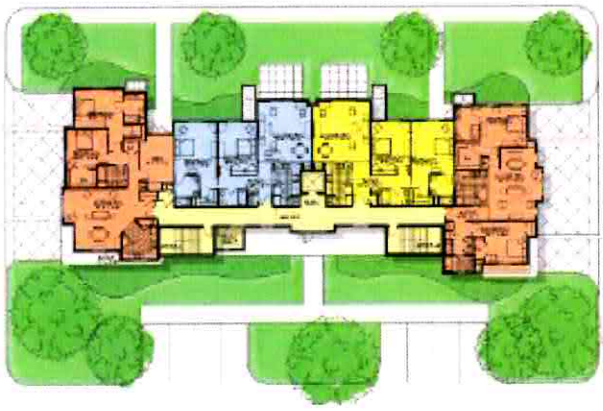
CREATIVE AND UNIQUE DESIGN

SFCS worked along with the owner, Spectrum Marketing and other project development team members to update the community and meet the contemporary needs for prospective new and existing residents. The team created a design that preserved the unique aspects of this project, while providing an operationally efficient design that was market-driven.

The Overlook at Pine Knoll, Southern Pines, NC, continued

Lakewood Manor and The Pines at Davidson were exploring multiple housing options to broaden their financial base and offer existing and prospective residents more choices. SFCS conducted and implemented master plans that included new villas and cottages for Independent Living. The villas have eight large units in a stand alone configuration, with enclosed parking and storage areas, and shared elevators. The unique split elevator configuration allows for the inner two units to open to both sides of the building, providing excellent natural light and views. The end units have three sides of exposure resulting in excellent light and views. Each unit has a large outdoor terrace or balcony. The site can also accommodate additional copies of these buildings as demand dictates.

Villa Living



Green and sustainable architecture is a growing trend and innovation in our industry. Building Codes and the regulatory agencies are beginning to require these features and building owners are recognizing the value of this design.

Green is the New CCRC

SFCS has integrated principles of Sustainable Design in four current projects, Whitney Center, Edenwald, Rockhill Mennonite, and Mariposa at Bethany Beach. Designers are creating spaces that utilize green products and services in a way that reduces use of non-renewable resources, minimizes environmental impact, and relates people with the natural environment.

Whitney Center, Hamden, CT and Edenwald, Towson, MD

SFCS has integrated principles of Sustainable Design by implementing green technology and site planning at Whitney Center and Edenwald. These CCRC's, located on tight urban sites, wanted to create additional amenities with their limited space and without harmful impact on the earth. The project designers are implementing an aesthetically pleasing, operationally efficient, and environmentally friendly design that will offer positive benefits to the occupants' well-being and provide additional amenities for both projects.

CREATIVE AND UNIQUE DESIGN

Whitney Center and Edenwald will have elevated terraces with dining options, small water features, and walking gardens creating visual interest and outdoor activity spaces for residents. Some of the benefits of these green roofs are:

- reduces storm water runoff
- lengthens roof life by two to three times
- reduces carbon dioxide impact
- reduces summer air conditioning cost
- reduces winter heat demand
- reduces noise
- provides songbird habitat

In addition to our efforts, the residents at Whitney Center have joined the green movement by forming GrayisGreen.org, to help educate and spread the word of "conservation by and for the elderly."

Green is the New CCRC, continued

Rooftop Terrace
Edenwald, Towson, MD

Highland Park, Sellersville, PA

The Rockhill Mennonite Community (RMC) is a vibrant retirement living environment nestled into the outskirts of Sellersville, PA. RMC's goal to reach more patrons and its understanding of future market demands were the driving forces in adding an active adult component adjacent to its community. SFCS was retained to explore various concepts to successfully develop Highland Park, RMC's planned community for active adults.

A series of charrettes were held with three owner designated teams to further visualize the community's goals. A consensus was achieved at the conclusion of a retreat held with RMC's board members and staff. The character of the resulting design concept is centered on sustainability and principles of green architecture. Most of the exterior materials are influenced by local resources such as recycled copper roofs, stone from local quarries, sustainable wood veneer panels, and high performance glazing. The design takes full advantage of the natural environment and enhances the views of the surrounding area, and creates outdoor spaces within the "town" complex. Highland Park is envisioned as a dwelling place where arts and crafts will be a central theme. A pervasive mentality of health and wellness is evident throughout the facility.

Highland Park, Sellersville, PA

CREATIVE AND UNIQUE DESIGN

Green is the New CCRC, continued

Mariposa at Bethany Beach, Bethany Beach, DE

Mariposa at Bethany Beach is start-up CCRC owned by PUMH, Inc. The goal for this community is to provide a home for seniors with a complete continuum of care and the market-competitive amenities and residences to appeal to today's active seniors. SFCS created a design that compliments the local vernacular, while embodying a unique character that addresses modern residential needs and is functionally efficient.

The SFCS design team paid special attention to the individual siting of each building. Integration of sustainable design principles and practices have been implemented early in the planning and design process and will continue through the entire construction process. Basic LEED Certification is actively being sought.

The new community will include 130 Independent Living Apartments, 30 Carriage Homes and 60 Villa Apartments, Fitness & Wellness Center, 35 Assisted Living Apartments, 15 Memory Support, and 40 Nursing Beds.

Rendering of Mariposa at Bethany Bethany Beach, DE

As demonstrated above, our involvement in the sustainable planning and design techniques implemented in these seniors projects has provided our staff first hand knowledge of how natural light, spatial configurations, views, control of HVAC systems, building material selection, building orientation, recyclability of materials, and site selection, among other factors, can create a community that will enjoy lower operational costs, enhance the quality of life for residents, and avoid a negative impact on the natural environment.

Wellness Culture

Providing opportunities for continued learning and personal growth, SFCS has designed comprehensive wellness/fitness centers for senior's communities and universities. With the renewed focus on wellness - mind, body and spirit - we are adding wellness centers to many retirement projects. These centers include clinical spaces, chapels/prayer rooms, business centers, therapy gardens, barber/beauty shops, massage/spa rooms, aromatherapy, physical therapy, occupational therapy, therapy pools, lap pools, hot tubs, juice bars, bistros, fitness/exercise spaces and classroom spaces.

We encourage and support our clients' efforts to incorporate wellness for residents in all levels of care. We strive to design environments that promote wellness throughout the total community and allow wellness programs to flourish and adapt over time.

Promoting independence for seniors cannot be successful without an effective comprehensive wellness program.

GOING GREEN...SUSTAINABLE DESIGN

Our planet...our society...our health...our prosperity are fundamentally impacted by the buildings we create. As awareness of and demand for more sustainable design in senior living projects increases, it is critical to understand we have a vital opportunity to reshape future development

Renewable...Re-usable...Sustainable...

As an advocate for sustainable design, SFCS believes that good design practices inherently promote green design. Our firm has been characterized as a staff of environmental problem solvers rather than a group of dirt worshipers. We are pleased that our sustainable efforts take a formerly extreme ideal into common-sense rational practice. Currently six of our staff are LEED Accredited professionals and seven are in the process of pursing this accreditation. Our firm recently completed our own corporate sustainability plan that will be available on our new website in a few months.

Currently, SFCS is working on the following projects that are designated to achieve LEED certification when complete:

- Whitney Center elderly housing, Hamden, CT
- Mariposa elderly housing, Bethany Beach, DE
- Armed Forces Retirement Homes, Gulfport, MS
- Our Health Phase 2 offices, Winchester, VA
- Westminster Canterbury on Chesapeake Bay, Virginia Beach, VA
- R.E. Lee High School Senior Housing Conversion, Staunton, VA
- Edenwald Senior Housing, Baltimore, MD

Working on over $400 million of LEED certified or LEED certifiable projects has provided our staff first-hand knowledge of how to implement sustainble design principles that can reduce the impacts of natural resource consumption, improve the bottom line and competitive first costs, optimize life-cycle economic performance, minimize strain on local infrastructures and improve quality of life for residents and staff. Exploring all of the possible opportunities in creating a healthier environment for staff, residents, and the surrounding community, will allow senior housing providers to renew and sustain their mission.

W.M. Jordan COMPANY

Tye Campbell, PE

Project Principal

As a principal at SFCS Architects, Tye Campbell has over 25 years of project management and engineering experience. He specializes in Long Term Care and Seniors Design and has been involved in the planning of more than 150 communities.

Tye has been with the firm since 1984 and has served as project principal, project manager and has led the architectural and engineering design for major retirement projects. He currently serves as Principal of SFCS. He has spoken at multiple conferences including IAHSA, AAHSA, VANHA, PANPHA, NCANPHA, AOPHA, Retirement Dynamics, Spectrum, and our annual SFCS By Design Conference. Tye has participated as an expert panelist on such topics as "The Retirement Living Community of 2020," "Upgrading Your Community is Not Just Construction," and "Are You With Us? CCRC's Involve Residents in Master Planning." He has also given presentations on Culture Change, Construction and Development, Post Occupancy Evaluations, and Technology.

Project Experience

Whitney Center, Hamden, CT

ACTS Retirement-Life Communities, Inc., Indian River Estates, Vero Beach, FL

Pennybyrn at Maryfield, High Point, NC

Salemtowne, The Moravian Home, Winston-Salem, NC

Friends Home at Guilford, Greensboro, NC

The Deupree Nursing Cottages, Cincinnati, OH

Moravian Hall Square, Nazareth, PA

Masonic Homes, Elizabethtown, PA

Goodwin House, Alexandria, VA

The Chesapeake, Newport News, VA

Westminster-Canterbury on Chesapeake Bay, Virginia Beach, VA

Westminster-Canterbury of Lynchburg, Lynchburg, VA

Riverside Health System, Williamsburg & Gloucester, VA

Education

The Pennsylvania State University, Bachelor of Science, Architectural Engineering, 1982

University of Virginia, Graduate Study, Civil Engineering

Affiliations

American Society of Civil Engineers; American Concrete Institute; National Society of Professional Engineers; Southwest Virginia Quality Control; American Institute of Steel Construction; NCANPHA; VANHA; AAHSA

Certification

Professional Engineer, 1986

Publications

Renovation Solutions for Nursing Home Culture Change, AAHSA Whitepaper, 2006

Lessons Learned from Post Occupancy Evaluations, AAHSA Whitepaper, 2006

Elders on Campus: Maximum Benefits on All Fronts, AAHSA Whitepaper, 2007

W.M. Jordan COMPANY

Pamela Feuer, AIA, CCCA, LEED AP

Project Manager

As Project Manager, Pam oversees the project through design and construction, working with the project team and reporting to the project principal. She is responsible for ensuring that the project goals and program are met.

Pam has over 24 years experience in project management and construction administration. She has served as project manager and construction administrator on new facilities, renovations and expansions.

Project Experience

Veterans Administration Hospital, Salem, VA

-Outpatient Primary Psychiatric Care, Building 11

-Outpatient Primary Care Clinic Renovation

-Specialty Clinic

-Dining Room Addition

-Patient Safety Improvements

-Elevator repairs and replacements

-Roof replacements

Richfield Retirement Community, Salem, VA

Dogwood Village of Orange County, Orange, VA

-Assisted Living Building

Radford Nursing & Rehabilitation Center, Radford, VA

Westminster-Canterbury on Chesapeake Bay, Virginia Beach, VA

Carilion/Roanoke Memorial Hospital, Roanoke, VA

-Carilion Laundry Loading Dock addition

-Carilion Peters Creek MOB

-Carilion RMH 5th Floor West addition

-Carilion Brambleton Clinic addition and renovation

-Parking Structure

-Crystal Springs MOB

Consultants in Cardiology, Roanoke, VA

-Medical Office Building

American Red Cross, Roanoke, VA

Salemtowne, The Moravian Home, Winston-Salem, NC

-Healthcare Building

Friends Homes, Inc., Greensboro, NC

Virginia Baptist Homes, Inc., Culpeper, VA

-The Glebe, Daleville, VA

Education

Virginia Tech, Bachelor of Architecture, 1984

Registration

Registered Architect, 1991

Affiliations

American Institute of Architects

Blue Ridge ChapterBoard Member American Institute of Architects

Alpha Rho Chi National Architecture Fraternity

Certification

Certified Construction Contract Administrator, 2009

LEED Accredited Professional, 2009

W.M. Jordan COMPANY

Richard Thomas, AIA

Project Designer

As project designer Richard will work to blend the art and science of architecture to create a living space that meets the emotional and functional needs of your residents and staff. He will work closely with your project team utilizing SFCS's collaborative planning process to shape the project goals and program into an appropriate and well-planned design.

Richard has served as project designer for major SFCS projects across the country, dedicating the past twenty-four years of his professional career to the design of innovative environments for senior housing.

Project Experience

Liberty Healthcare, Wilmington, NC

Maplewood Park Place, Bethesda, MD
- Master Plan

Armed Forces Retirement Homes, Inc.
- Design/Build Replacement CCRC, Gulfport, MS
- Scott Building, and Healthcare, Washington, DC

Rockhill Mennonite, Sellersville, PA

Knollwood Retirement Community, Washington, D.C.

Lucy Corr Village, Chesterfield, VA
- Independent Living Expansion

Virginia Baptist Homes, Inc., Culpeper, VA
- The Chesapeake, Newport News, VA

Edenwald Retirement Community, Towson, MD

Liberty Healthcare, Wilmington, NC
- New CCRC

Episcopal Retirement Homes, Inc., Cincinnati, OH
- The Deupree Community, Cincinnati, OH
- Marjorie P. Lee, Retirement Community, Cincinnati, OH

Westminster-Canterbury of the Blue Ridge, Charlottesville, VA
- Independent Living Apartments
- Community Center

Cypress Cove at HealthPark Florida, Fort Meyers, FL

Education

Virginia Western Community College, Architectural Technology, 1974

North Carolina State University, School of Design- Architecture, 1976

Virginia Tech, School of Architecture, 1978

Virginia Commonwealth University, College of Music and Composition and Performance, 1981

Registration

Registered Architect, 1992

Affiliations

American Institute of Architects

W.M. Jordan COMPANY

Justine Sowers, ASID Allied

Interior Designer

Justine Sowers has over 2 years of experience designing interior environments for senior housing projects Justine will be responsible for developing interior design solutions, specifications documentation and for overseeing installation.

Justine focuses on achieving a cost-effective and lasting interior environment that is responsive to your needs, appropriate to your project and within your budget and schedule. She is experienced in space planning and programming and the selection of colors, lighting, finishes and furnishings.

Project Experience

Washington & Lee University, Lexington, VA
- -Leyburn Library Renovation

Our Health Phase II, Winchester, VA
- -Clinic/Social Services Complex

Westminster Canterbury on Chesapeake Bay, Virginia Beach, VA
- -Interior Upgrades to Senior Living Campus

Dogwood Village of Orange County, Orange, VA
- -Assisted Living Building

Westminster at Lake Ridge, Lake Ridge, VA
- -Assisted Living and Healthcare
- -Dining, Potomac and Lobby

Unity Health System, Rochester, NY
- -Renovation to Senior Living Community

Armed Forces Retirement Home, Gulfport, MS
- -FF&E for Replacement CCRC

George Mason University*, Fairfax, VA
- -Research Building

University of Mary Washington*, Fredericksburg, VA

(*) Previous experience to joining SFCS

Education

Radford University, Bachelor of Science, Interior Design, 2006

Affiliations

Allied Member of American Society of Interior Designers

W.M. Jordan COMPANY

Craig Favor, PE, SECB, LEED AP

Senior Structural Engineer

Craig Favor is our structural engineer. At this point, the level of structural involvement is not clear and is likely to be minimal. Craig is available for what is anticipated to be minimal structural requirements.

With over 11 years of experience, Craig has developed the structural design for retirement, medical and government facilities. He has used a variety of structural systems and computer-aided designs.

Project Experience

Covenant Woods, Richmond, VA

Davidson Retirement Community, Davidson, NC
- -The Pines at Davidson, Davidson, NC

Episcopal Retirement Homes, Inc., Cincinnati, OH
- -The Deupree Community, Cincinnati, OH

Friends Homes, Inc., Greensboro, NC
- -Friends Homes at Guilford, Whittier Building Renovation and Parking Garage, Greensboro, NC

Knollwood Retirement Community, Washington, D.C.

Lucy Corr Village, Chesterfield, VA

Ohio Presbyterian Retirement Services, Columbus, OH
- -Mount Pleasant Retirement Community, Assisted Living Building, Monroe, OH

Orange County Nursing Home, Orange, VA
- -Assisted Living Addition

Pickersgill, Inc., Towson, MD
- -Renovations and Additions

St. Joseph of the Pines, Southern Pines, NC
- -Overlook at Pine Knoll Multi-level Senior Living Renovation

United Church Homes & Services, Newton, NC
- -Abernethy Laurels Community Center Addition

Virginia Baptist Homes, Inc., Culpeper, VA
- -Lakewood Manor, Richmond, VA

Education

Virginia Tech, Master of Science, Civil Engineering, Specialization in Structural Engineering, 1997

North Carolina State University, Bachelor of Science, Mechanical Engineering, 1994

Registration

Professional Engineer, 2000

Certification

LEED Accredited Professional

Structural Engineering Certification Board (SECB)

Affiliations

American Society of Civil Engineers

American Institute of Steel Construction

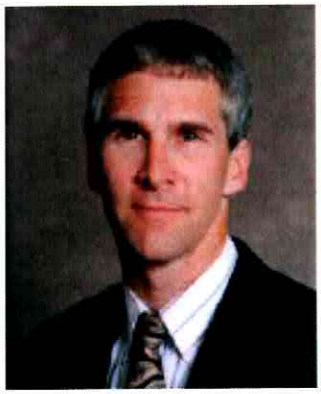
US Green Building Council

W.M. Jordan COMPANY

Steve Cates, PE, LEED AP

Senior Associate/Mechanical Engineer

Steve will be responsible for the design of all heating, ventilation, and air conditioning systems. He has special training in energy management and control systems.



Steve Cates has over 22 years of experience in mechanical engineering. His background has involved work with a variety of systems, including major new HVAC systems, renovations to existing buildings and energy conservation studies.

Project Experience

Albright Care Services, Lewisburg, PA
- -Normandie Ridge, York, PA

Davidson Retirement Community, Davidson, NC
- -The Pines at Davidson, Davidson, NC
- -Healthcare Expansion
- -Therapy Pool Addition
- -Additions and Renovations

Lucy Corr Village, Chesterfield, VA
- -Chesterfield County Nursing Home

Masonic Village at Elizabethtown, Elizabethtown, PA
- -Independent Living Community, Phases I, II & III
- -Healthcare Center, Phase I-V
- -Village Green Renovation
- -Cottage Expansion

Salemtowne, The Moravian Home, Winston-Salem, NC

United Church Homes and Services, Newton, NC
- -Abernethy Center, Newton, NC
- -Community Center Addition
- -Assisted Living Renovations
- -Cottages

Westminster-Canterbury of Lynchburg, Inc., Lynchburg, VA
- -Wellness Center

Westminster-Canterbury of the Blue Ridge, Charlottesville, VA
- -Cottage Expansion
- -Independent Living Building and Common Building Expansion

Education

Pennsylvania State University, Architectural Engineering, 1971

Registration

1976/ Professional Engineer

Certification

LEED Accredited Professional

Affiliations

American Society of Heating, Refrigeration, Air Conditioning Engineers (ASHRAE)

Winston Matthews, PE

Electrical Engineer

Winston Matthews brings over 7 years of experience to your project. He is responsible for the design of lighting, power distribution, fire alarm systesm, and low voltage communities.

Project Experience

Whitney Center, Hamden, CT

Lucy Corr Village, Chesterfield, VA

Friends Homes, Inc., Greensboro, NC
- -Friends Homes at Guilford, Greensboro, NC

Knollwood Retirement Community, Washington, DC

United Church Homes & Services, Newton, NC
- -Abernethy Laurels Community Center Addition

Westminster at Lake Ridge, Lake Ridge, VA
- -AL/HC Renovation
- -Dining Renovation

ACTS Retirement-Life Community, Boca Raton, FL
- -Indian River Estates, Vero Beach, FL

Pickersgill, Inc., Towson, MD

Covenant Woods, Richmond, VA

Warm Hearth Village, Blacksburg, VA

Westminster-Canterbury of the Blue Ridge, Charlottesville, VA
- -Cottage Expansion

Riverview, Savannah, GA

R.E. Lee, Staunton, VA
- -IL/HC Renovation

Education

Virginia Tech, Bachelor of Science, Electrical Engineering, 1999

Registration

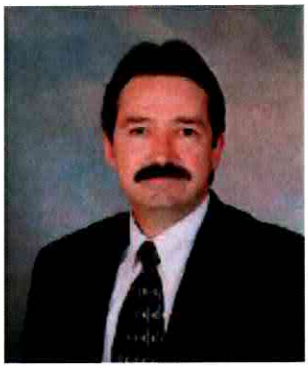
Professional Engineer, 2008

W.M. Jordan COMPANY

Tim Roseberry, CPD

Associate/Plumbing/Fire Protection Systems Designer

As plumbing/fire protection systems designer, Tim Roseberry will be responsible for the design of both systems.



Tim has over 26 years of experience in the design of these types of systems. He has spent 24 years designing systems with SFCS. His experience is extensive and varied and includes retirement communities and medical facilities.

Project Experience

Moravian Hall Square, Nazareth, PA

Albright Care Services, Lewisburg, PA
- -Normandie Ridge, York, PA

The Highlands at Wyomissing, Wyomissing, PA

Knollwood Retirement Community, Washington, DC

Armed Forces Retirement Home
- -Gulfport, MS
- -Washington, DC

Goodwin House, Alexandria, VA

Virginia Baptist Homes, Inc., Culpeper, VA
- -Lakewood Manor, Health Services Center & The Villas, Richmond, VA
- -The Chesapeake, Newport News, VA
- -The Glebe, Daleville, VA

Westminster-Canterbury of the Blue Ridge, Charlottesville, VA
- -Cottage Expansion
- -Catered Living Expansion
- -New Independent Building
- -Community Center Expansion

Westminster-Canterbury on Chesapeake Bay, Inc., Virginia Beach, VA
- -New Independent Living Building
- -Community Center Expansion

Westminster-Canterbury of Richmond, Richmond, VA

Westerminster-Canterbury, Inc., Lynchburg, VA

Westminster-Canterbury on Chesapeake Bay, Inc., Virginia Beach, VA

Westminster-Canterbury Inc., Lynchburg, VA

Education

Virginia Western Community College, Plumbing Design, 1976

Affiliations

American Society of Plumbing Engineers

Richmond Chapter-
Blue Ridge District
Past President, (1997-99)
Past Treasurer (1995-97)
Past Secretary (1993-95)
Virginia Blue Ridge Chapter-
Past Treasurer (2005-2006)

W.M. Jordan COMPANY

Lorraine Hiatt, Ph.D,
Planning, Research, and Desgin for the Aging
Gerontologist

Lorraine G. Hiatt, Ph.D. is a New York based consultant in environmental design and aging. Her work involves nationwide consultation, "post-occupancy research," teaching, board retreats, writing and operations assistance. She works directly for sponsors of retirement housing and health care and consults to design firms.

Lorraine has provided program and design consultation to 400 communities over 35 years. Her work has been featured in Design for Aging, the AIA (American Institute of Architects) and AAHSA (American Association of Homes and Services for the Aging bi annual reviews (1992-present). Dr. Hiatt has published 50+ articles, a book and provided presentations at many national conferences and at Harvard University's Summer Design Program: on Assisted Living, Alzheimer's Disease, Health Care, Performance Based Regulations, and CCRC's, Managed Design/Managed Care and wellness. She has completed nearly 100 distinctive projects in 46 states and travels over 200 days a year, working directly on project planning and design. Her work on culture change and design has been featured in the New York Times, see "Main Street as Memory Lane," Deborah Baldwin. New York Times, House and Home (2002), January 10, pages F1 and F7.

Project Experience

Armed Forces Retirement Homes, Inc.
- -Replacement CCRC, Gulfport, MS
- -Scott Building, and Healthcare, Washington, DC

Northern California Presbyterian Homes, SFO & Portola Valley, CA

Waveny, New Canaan, CT

International Loyal Order of the Moose, Orange Park, FL

Evenglow Lodge, Pontiac, IL

Peabody Retirement, West Manchester, IN

Greencroft, Goshen, IN

Our Lady of Wisdom, New Orleans, LA

Village Shalom, Kansas City, KS

Ewporth Villa, Oklahoma City, OK

The Highlands at Wyomissing, Wyomissing, PA

Westminster-Canterbury of the Shenandoah Valley, Winchester, VA

Rockhill Mennonite, Sellersville, PA

New York State Veterans Home, Batavia & Montrose, NY

Education

Graduate Center, City University of New York., Ph.D., Environmental Psychology, 1985

Cornell University Mastor of Environmental Design, 1972

Cornell University, Bachelor of Science, 1969

Dissertation

Wandering Behavior of Older People: A Study of Hyperactivity, Disorientation and the Spatial Environment. Published Univ. of Michigan Dissertations.

Awards & Honors

2004 AIA/AAHSA Design for Aging, Commendation for Innovation in Aging and Design

1995 New York City Chapter, American Institute of Architects, Pioneer Award for Outstanding contribution to the field of housing.

1994 Project Dr. Hiatt planned and designed won Peter Drucker Management award for outstanding advance in health facilities labor: Weinberg Campus, Buffalo (Amherst), NY.

1991 Travel to Moscow, Russia for U.S. State Dept as part of a 3-person delegation on a humanitarian mission in gerontology.